

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 4. (Canceled)

5. (Currently Amended) An isolated polypeptide selected from the group consisting of:

- a) a polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of the nucleotide sequence of SEQ ID NO:1 and SEQ ID NO:3; and
- b) a polypeptide comprising amino acid residues 1 to 350 of SEQ ID NO:2, wherein the polypeptide has a kinase activity; and
- c) a polypeptide comprising an amino acid sequence at least 95% identical to SEQ ID NO:2, wherein the polypeptide has a kinase activity.

6. (Original) The polypeptide of claim 5 further comprising heterologous amino acid sequences.

7. – 11. (Canceled)

12. (Withdrawn- Currently Amended) A method for identifying a compound which binds to a polypeptide ~~of claim 5~~ comprising the steps of:

- a) contacting ~~a polypeptide, or a cell expressing a~~ the polypeptide of claim 5 with a test compound; and
- b) determining whether the polypeptide binds to the test compound.

13. (Withdrawn- Currently Amended) The method of claim 12, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:

- a) detection of binding by direct detecting of test compound/polypeptide binding;
- b) detection of binding using a competition binding assay; and
- c) detection of binding using an assay for protein kinase-mediated phosphorylation; and

d) ~~detection of binding using a two-hybrid assay.~~

14. (Canceled)

15. (Currently Amended) A method for identifying a compound which modulates ~~the an~~ activity of a polypeptide ~~of claim 5~~, comprising:

- a) contacting [[a]] ~~the~~ polypeptide of claim 5 with a test compound; and
- b) determining the effect of the test compound on ~~the an~~ activity of the polypeptide to thereby identify a compound that modulates the activity of the polypeptide.

16. (Currently Amended) The method of claim 15, wherein the activity of the polypeptide is determined in a kinase assay using a ~~44171 kinase substrate protein or peptide capable of being phosphorylated.~~

17. – 20. (Canceled)

21. (Previously Presented) The polypeptide of claim 5, wherein the polypeptide comprises SEQ ID NO:2.

22. (Canceled)

23. (Withdrawn) The method of claim 12, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.

24. (Withdrawn) The method of claim 12, wherein the polypeptide is immobilized on a solid surface.

25. (Withdrawn) The method of claim 12, wherein the test compound is directly or indirectly labeled.

26. (Currently Amended) The method of claim ~~15~~ 13, wherein the ~~method comprises ATP binding to activity of the polypeptide is the ability to bind ATP.~~

27. (Withdrawn) The method of claim 15, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.

28. (Currently Amended) The method of claim 16, wherein the 14171 kinase substrate protein or peptide capable of being phosphorylated has a T-P motif.

29. (Withdrawn-Currently Amended) The method of claim 15, further comprising the step of contacting a cell comprising wherein the polypeptide is expressed in a cell and with the test compound is contacted with the cell expressing the polypeptide.

30. (Withdrawn-Currently Amended) The method of claim 29, wherein the method determines apoptosis of the cell activity of the polypeptide is selected from the group consisting of:

- ____ a) phosphorylation activity; and
- ____ b) apoptosis.

31. (Withdrawn) The method of claim 29, wherein the cell is selected from a group consisting of an epithelial cell and a tumor cell.

32. (Withdrawn-Currently Amended) The method of claim 29, wherein the method determines activity of the polypeptide is determined by determining the activity of a target molecule.

33. (Withdrawn) The method of claim 32, wherein the activity of the target molecule is selected from the group consisting of:

- a) cellular second messenger activity,
- b) catalytic/enzymatic activity,
- c) reporter gene induction, and
- d) cellular growth, differentiation or proliferation.

34. (Withdrawn) The method of claim 33, wherein the reporter gene induction follows activity selected from the group consisting of nuclear factor-kappaB activity and interleukin-8 activity.

35. (Previously Presented) An isolated polypeptide consisting of the amino acid sequence of SEQ ID NO:2.